

Serial no. 09/284/787

Attorney docket: BMID 9913

CLAIMS LISTING 9/13/2004

What is claimed is:

1-17 (cancelled)

18. (currently amended) A monoclonal antibody having an a binding affinity of >10⁸ M⁻¹ for the amino acid sequence YPYDVPDYA[[,]] (SEQ ID NO: 1) as determined using a BIACORE® surface plasmon resonance system, ~~wherein said monoclonal antibody is and raised against a 13 or 14 amino acid containing an epitope of human influenza virus haemagglutinin consisting of 13 or 14 amino acids.~~

19. (currently amended) A monoclonal antibody having an a binding affinity of 10⁹-10¹⁰ M⁻¹ for the amino acid sequence YPYDVPDYA, (SEQ ID NO: 1) as determined using a BIACORE® surface plasmon resonance system, ~~wherein said monoclonal antibody is and raised against a 13 or 14 amino acid containing an epitope of human influenza virus haemagglutinin consisting of 13 or 14 amino acids.~~

20. (currently amended) The monoclonal antibody of claim 18 or claim 19, wherein said antibody is produced by hybridomas which are obtained by fusing mouse P3x63-Ag8.653 myeloma cells with B lymphocytes from Lou/C rats, said Lou/C rats having been immunized with a haemagglutinin peptide.

21. (currently amended) The monoclonal antibody of claim 18 or claim 19, wherein said antibody is produced by hybridomas which are obtained by fusing mouse P3x63-Ag8.653 myeloma cells with B lymphocytes from Lou/C rats, said Lou/C rats having been immunized with a haemagglutinin peptide, wherein said immunization is carried out with a haemagglutinin peptide coupled to keyhole limpet haemocyanin.

22. (previously presented) The monoclonal antibody of claim 18 or claim 19, wherein said antibody is produced by hybridoma R 3A12 deposited at the "Deutsche Sammlung für Mikroorganismen und Zellkulturen" under Accession No. DSM ACC2286 (08.10.1996).

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23. (currently amended) A method for the production of a monoclonal antibody against with binding specificity for the epitope YPYDVPDYA (SEQ ID NO: 1) comprising:

- synthesizing a haemagglutinin peptide consisting of 13 or 14 amino acids,
- immunizing a small mammal with said peptide,
- isolating B lymphocytes from the spleen of said mammal and fusing said lymphocytes with mouse P3x63-Ag8.653 myeloma cells to form clones,
- selecting clones formed in step (c) that produce an antibody which binds to [[a]] the haemagglutinin peptide and to a haemagglutinin fusion protein, and
- selecting a clone from those selected in step (d) that produces an antibody with an a binding affinity of >10⁸ M⁻¹ for the sequence YPYDVPDYA (SEQ ID NO: 1) and establishing said clone as a hybrid cell line.

24. (previously presented) The method of claim 23, wherein said haemagglutinin peptide is selected from the group consisting of acetyl-YPYDVPDYAGSGSK (ϵ -biotinoyl) amide (a derivative of SEQ ID NO: 2) and biotinoyl- ϵ -Aca-SGSGYPYDVPDYA amide (a derivative of SEQ ID NO: 3).

25. (previously presented) The method of claim 23, wherein said haemagglutinin fusion protein is haemagglutinin-tagged glutathione-S-transferase.

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